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//@version=5
indicator('Beardy Squeeze Pro', shorttitle='Squeeze', overlay=false, precision=2)

length = input.int(20, "TTM Squeeze Length")

//BOLLINGER BANDS
BB_mult = input.float(2.0, "Bollinger Band STD Multiplier")
BB_basis = ta.sma(close, length)
dev = BB_mult * ta.stdev(close, length)
BB_upper = BB_basis + dev
BB_lower = BB_basis - dev

//KELTNER CHANNELS
KC_mult_high = input.float(1.0, "Keltner Channel #1")
KC_mult_mid = input.float(1.5, "Keltner Channel #2")
KC_mult_low = input.float(2.0, "Keltner Channel #3")
KC_basis = ta.sma(close, length)
devKC = ta.sma(ta.tr, length)
KC_upper_high = KC_basis + devKC * KC_mult_high
KC_lower_high = KC_basis - devKC * KC_mult_high
KC_upper_mid = KC_basis + devKC * KC_mult_mid
KC_lower_mid = KC_basis - devKC * KC_mult_mid
KC_upper_low = KC_basis + devKC * KC_mult_low
KC_lower_low = KC_basis - devKC * KC_mult_low

//SQUEEZE CONDITIONS
NoSqz = BB_lower < KC_lower_low or BB_upper > KC_upper_low //NO SQUEEZE: GREEN
LowSqz = BB_lower >= KC_lower_low or BB_upper <= KC_upper_low //LOW COMPRESSION: BLACK
MidSqz = BB_lower >= KC_lower_mid or BB_upper <= KC_upper_mid //MID COMPRESSION: RED
HighSqz = BB_lower >= KC_lower_high or BB_upper <= KC_upper_high //HIGH COMPRESSION: ORANGE

//MOMENTUM OSCILLATOR
mom = ta.linreg(close - math.avg(math.avg(ta.highest(high, length), ta.lowest(low, length)), ta.sma(cl

//MOMENTUM HISTOGRAM COLOR
iff_1 = mom > nz(mom[1]) ? color.new(color.aqua, 0) : color.new(#2962ff, 0)
iff_2 = mom < nz(mom[1]) ? color.new(color.red, 0) : color.new(color.yellow, 0)
mom_color = mom > 0 ? iff_1 : iff_2

//SQUEEZE DOTS COLOR
sq_color = HighSqz ? color.new(color.orange, 0) : MidSqz ? color.new(color.red, 0) : LowSqz ? color.ne

//ALERTS
Detect_Sqz_Start = input.bool(true, "Alert Price Action Squeeze")
Detect_Sqz_Fire = input.bool(true, "Alert Squeeze Firing")

if Detect_Sqz_Start and NoSqz[1] and not NoSqz
    alert("Squeeze Started")
else if Detect_Sqz_Fire and NoSqz and not NoSqz[1]

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    alert("Squeeze Fired")

//PLOTS
plot(mom, title='MOM', color=mom_color, style=plot.style_columns, linewidth=2)
plot(0, title='SQZ', color=sq_color, style=plot.style_circles, linewidth=3)
```
